

Test Report
检测报告

No.: CANEC25014780709

Date: Jul 04, 2025

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日期: 2025 年 07 月 04 日 页码 1 of 44

Client Name:

ADVANCED ASSEMBLY MATERIALS CHINA LIMITED

客户名称:

先进半导体材料(深圳)有限公司

Client Address:

BLOCK 6101-6301, 10/1F, 12-14, 15/2-3, FUQIAO 2ND INDUSTRIAL ESTATE,
QIAOTOU COMMUNITY, FUHAI, BAO'AN DISTRICT, SHENZHEN CITY,
GUANGDONG PROVINCE, P.R. CHINA

客户地址:

中国广东省深圳市宝安区福海街道桥头社区富桥二区厂房 6101-6301、10 栋 1 楼、
12-14 栋、15 栋 2-3 楼

Sample Name:

Ag PLATING LAYER

样品名称:

Ag PLATING LAYER

Manufacturing Date:

30-May-25

制造日期:

30-May-25

The above sample(s) and information were provided by the client.

以上样品及信息由客户提供。

SGS Job No.:

SZP25-031015

SGS 工作编号:

SZP25-031015

Sample Receiving Date:

Jun 20, 2025

样品接收时间:

2025 年 06 月 20 日

Testing Period:

Jun 20, 2025 ~ Jun 27, 2025

检测周期:

2025 年 06 月 20 日 ~ 2025 年 06 月 27 日

Test Requested:

Select test(s) as requested by the client.

检测要求:

根据客户要求检测

Test Method(s):

Please refer to next page(s).

检测方法:

见后续页。

Test Result(s):

Please refer to next page(s).

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

通标标准技术服务有限公司广州分公司

授权签名

Arsene Ye

Arsene Ye 叶士龙

Approved Signatory

批准签署人

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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Technical Laboratory

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检测结果:

见后续页。

Test Requirement 检测要求	Conclusion 结论
Lead, Mercury, Cadmium and Hexavalent chromium 铅、汞、镉和六价铬	See Results 见检测结果
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) 欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	Pass 符合
Tetrabromobisphenol A (TBBP-A) 四溴双酚 A (TBBP-A)	See Results 见检测结果
Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs) 中链氯化石蜡(C14-C17) (MCCPs)	See Results 见检测结果
Element(s) 元素	See Results 见检测结果
Halogen 卤素	See Results 见检测结果
Hexabromocyclododecane (HBCDD) 六溴环十二烷(HBCDD)	See Results 见检测结果
Organic-Tin compounds 有机锡化合物	See Results 见检测结果
Polychlorinated Terphenyls (PCTs) 多氯三联苯 (PCTs)	See Results 见检测结果
Polyvinyl Chloride (PVC) 聚氯乙烯(PVC)	See Results 见检测结果
short chain-chlorinated paraffins (SCCPs) 短链氯化石蜡(SCCPs)	See Results 见检测结果
Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives 全氟辛酸(PFOA)及其盐和全氟辛酸磺酸(PFOS)及其衍生物	See Results 见检测结果
Phthalates 邻苯二甲酸酯	See Results 见检测结果
Polychlorinated Biphenyls (PCBs) 多氯联苯(PCBs)	See Results 见检测结果
Polychlorinated Naphthalenes (PCNs) 多氯萘(PCNs)	See Results 见检测结果

Test Result(s):

检测结果:

Test Part Description:

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检测部件外观描述:

SN ID 样品序号	Sample No. 样品编号	SGS Sample ID SGS 样品 ID	Description 样品描述
SN1	A11	CAN25-0147807-0001.C011	Silver-white plated metal sheet 带银白色镀层的金属片
SN2	A12	CAN25-0147807-0001.C012	Silver-white plating on metal 金属上的银白色镀层

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检出限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

Lead, Mercury, Cadmium and Hexavalent chromium

铅、汞、镉和六价铬

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 and IEC 62321-7-1:2015, analysis was performed by ICP-OES/AAS and UV-Vis.

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 和 IEC 62321-7-1:2015, 采用 ICP-OES/AAS 和 UV-Vis 进行分析。

Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A12
Lead (Pb) / 铅 (Pb)	1000	mg/kg	2	2
Mercury (Hg) / 汞 (Hg)	1000	mg/kg	2	ND
Cadmium (Cd) / 镉 (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼ / 六价铬 (Cr(VI))▼	-	µg/cm ²	0.10	ND

Notes:

- (1) The maximum permissible limit is quoted from the clients requirement.
- (2) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.
Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

备注:



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(1) 最大允许极限值引用自客户要求。

(2) ▼ = a. 当六价铬的浓度高于 0.13 µg/cm² 时, 样品为阳性, 即含有六价铬;b. 当六价铬的浓度为 ND (低于 0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价铬;c. 当六价铬的浓度介于 0.10 µg/cm² 与 0.13 µg/cm² 之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A11
Lead (Pb) / 铅 (Pb)	1000	mg/kg	2	8
Mercury (Hg) / 汞 (Hg)	1000	mg/kg	2	ND
Cadmium (Cd) / 镉 (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼ / 六价铬 (Cr(VI))▼	-	µg/cm ²	0.10	ND
Polybromobiphenyl (PBB) / 多溴联苯之和 (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB) / 一溴联苯 (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB) / 二溴联苯 (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB) / 三溴联苯 (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB) / 四溴联苯 (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB) / 五溴联苯 (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB) / 六溴联苯 (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB) / 七溴联苯 (HeptaBB)	-	mg/kg	5	ND



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Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A11
Octabrominated biphenyl (OctaBB) / 八溴联苯 (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB) / 九溴联苯 (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB) / 十溴联苯 (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether (PBDE) / 多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE) / 一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE) / 二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE) / 三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE) / 四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE) / 五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE) / 六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE) / 七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
Octabrominated diphenyl ether (OctaBDE) / 八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE) / 九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE) / 十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP) / 邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP) / 邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP) / 邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP) / 邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
 (2) IEC 62321 series is equivalent to EN 62321 series.
 (3) ▽ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.



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- c. The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321系列等同于 EN 62321系列。

- (3) ▽ = a. 当六价铬的浓度高于 $0.13 \mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND (低于 $0.10 \mu\text{g}/\text{cm}^2$) 时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于 $0.10 \mu\text{g}/\text{cm}^2$ 与 $0.13 \mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

Tetrabromobisphenol A (TBBP-A)**四溴双酚 A (TBBP-A)**

Test Method: With reference to US RSTS E&E-121, analysis was performed by GC-MS or LC-MS or LC-MS/MS.

检测方法: 参考 RSTS E&E-121, 采用 GC-MS 或 LC-MS 或 LC-MS/MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
Tetrabromobisphenol A(TBBP-A) / 四溴双酚 A(TBBP-A)	79-94-7	mg/kg	5	ND

Alkanes C₁₄-C₁₇, chloro (medium- chain chlorinated paraffins) (MCCPs)**中链氯化石蜡(C₁₄-C₁₇) (MCCPs)**

Test Method: With reference to ISO 18219-2:2021, analysis was performed by GC-NCI-MS.

检测方法: 参考 ISO 18219-2:2021, 采用 GC-NCI-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
Alkanes C ₁₄ -C ₁₇ , chloro (medium- chain chlorinated paraffins) (MCCPs) / 中链氯化石蜡(C ₁₄ -C ₁₇) (MCCPs)	85535-85-9 and others 85535-85-9 和其它	mg/kg	50	ND

Element(s)**元素**

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Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-MS.
检测方法: 参考 US EPA 3052:1996, 采用 ICP-MS 进行分析。

Test Item(s) 检测项目	Unit(s) 单位	MDL	A11
Antimony(Sb) / 锑(Sb)	mg/kg	2	ND
Arsenic(As) / 砷(As)	mg/kg	2	ND
Beryllium(Be) / 铍(Be)	mg/kg	2	ND
Antimony Trioxide(Sb ₂ O ₃) / 三氧化二锑	mg/kg	2	ND

Halogen**卤素**

Test Method: With reference to EN 14582:2016, analysis was performed by IC.
检测方法: 参考 EN 14582:2016, 采用 IC 进行分析。

Test Item(s) 检测项目	Unit(s) 单位	MDL	A11
Fluorine(F) / 氟 (F)	mg/kg	20	ND
Chlorine(Cl) / 氯 (Cl)	mg/kg	50	ND
Bromine(Br) / 溴 (Br)	mg/kg	50	ND
Iodine(I) / 碘 (I)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)**六溴环十二烷(HBCDD)**

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.
检测方法: 参考 IEC 62321-9:2021, 采用 GC-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) / 六溴环十二烷(HBCDD)及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	5	ND

Organic-Tin compounds**有机锡化合物**

Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.
检测方法: 参考 ISO 17353:2004, 采用 GC-MS 进行分析。

Test Item(s) 检测项目	Unit(s) 单位	MDL	A11
Dibutyl tin(DBT) / 二丁基锡(DBT)	mg/kg	0.02	ND



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Test Item(s) 检测项目	Unit(s) 单位	MDL	A11
Tributyl tin(TBT) / 三丁基锡 (TBT)	mg/kg	0.02	ND
Diocetyl tin(DOT) / 二辛基锡 (DOT)	mg/kg	0.02	ND
Tri-n-propyltin(TPT) / 三丙基锡(TPT)	mg/kg	0.02	ND
Bis(tributyltin) oxide (TBTO) ◆ / 三丁基锡氧化物 (TBTO)◆	mg/kg	0.02	ND

Notes:

(1)◆ = TBTO is back calculated based on the worst-case scenario of TBT.

备注:

(1) ◆ 三丁基锡氧化物(TBTO): 由三丁基锡(TBT)的最差含量换算得之。

Polychlorinated Terphenyls (PCTs)**多氯三联苯 (PCTs)**

Test Method: With reference to US EPA 3550C:2007, analysis was performed by GC-ECD/GC-MS.
检测方法: 参考 US EPA 3550C:2007, 采用 GC-ECD/GC-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
Aroclor 5432 / Aroclor 5432	63496-31-1	mg/kg	0.5	ND
Aroclor 5442 / Aroclor 5442	12642-23-8	mg/kg	0.5	ND
Aroclor 5460 / Aroclor 5460	11126-42-4	mg/kg	0.5	ND

Polyvinyl Chloride (PVC)**聚氯乙烯(PVC)**

Test Method: With reference to ASTM E1252-98 (2021) and Flame test (Beilstein test), analysis was performed by FTIR.

检测方法: 参考 ASTM E1252-98 (2021) 和焰色反应(Beilsteinf 反应), 采用 FTIR 进行分析。

Test Item(s) 检测项目	CAS No.	A11
Polyvinyl chloride (PVC) / 聚氯乙烯 (PVC)	9002-86-2	Negative 阴性

short chain-chlorinated paraffins (SCCPs)**短链氯化石蜡(SCCPs)**

Test Method: With reference to ISO 18219-1:2021, analysis was performed by GC-NCI-MS.

检测方法: 参考 ISO 18219-1:2021, 采用 GC-NCI-MS 进行分析。



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Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
Alkanes C ₁₀ -C ₁₃ , chloro (short chain-chlorinated paraffins) (SCCPs) / 短链氯化石蜡(SCCP)(C ₁₀ -C ₁₃)	85535-84-8	mg/kg	50	ND

Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives
全氟辛酸(PFOA)及其盐和全氟辛烷磺酸(PFOS)及其衍生物

Test Method: Modified EN 17681-1:2022, analysis was performed by LC-MS or LC-MS/MS.

检测方法: 优化的 EN 17681-1:2022, 采用 LC-MS 或 LC-MS/MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
PFOS, its salts and related compounds PFOS 及其盐和相关物质				
Perfluorooctane sulfonic acid (PFOS), its salts^ / 全氟辛烷磺酸 (PFOS), 及其盐^	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) / N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) / N-甲基全氟辛烷磺酰胺 (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) / 2- (N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) / 2- (N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA), its salts^ / 全氟辛基磺酰胺 (PFOSA), 及其盐^	754-91-6	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^ / N-(全氟-1-辛烷磺酰基)甘氨酸 (FOSAA), 及其盐^	2806-24-8	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^ / N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA), 及其盐^	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its	2991-50-6	mg/kg	0.010	ND



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Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
salts^ / N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-EtFOSAA), 及其盐^				
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives / 全氟辛烷磺酸 (PFOS)及其衍生物	-	mg/kg	-	ND
PFOA, its salts PFOA, 及其盐				
Perfluorooctanoic acid (PFOA), its salts^ / 全氟辛酸 (PFOA), 及其盐^	335-67-1	mg/kg	0.010	ND

Notes:

1. ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1
Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH ₄)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3
N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7
Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7
Magnesium bis(heptafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate	71463-74-6
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃)	54439-46-2
Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄)	56773-44-5
N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
N,N-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
N,N,N-Triethyldecyl-1-aminium heptafluorooctane-1-sulfonate	773895-92-4

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Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C ₄ H ₉) ₄))	2185049-59-4
Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)	2205029-08-7
heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7
FOSAA, its salts	
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8
N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6
N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
N-MeFOSAA, its salts	
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9
2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7
Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, its salts	
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7
2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8
Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄)	2991-52-8
Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9
PFOSA, its salts	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2
Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N)	76752-82-4
PFOA, its salts & derivatives	
Perfluorooctanoic acid (PFOA)	335-67-1
Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Silver perfluorooctanoate (PFOA-Ag)	335-93-3
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6



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Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6
Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9
N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Tetrapropylammonium perfluorooctanoate	277749-00-5
Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂)	98065-31-7
Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6
Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N)	95658-47-2
pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N)	927835-01-6

备注:

1. ^=物质是指附表中列出的盐/衍生物。

物质名称	CAS No.
PFOS, 及其盐&衍生物	
全氟辛烷磺酸(PFOS)	1763-23-1
全氟辛基磺酸钾(PFOS-K)	2795-39-3
全氟辛基磺酸锂(PFOS-Li)	29457-72-5
全氟辛基磺酸钠(PFOS-Na)	4021-47-0
全氟辛基磺酸铵(PFOS-NH ₄)	29081-56-9
全氟辛基磺酸二乙醇铵(PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8
全氟辛基磺酸四乙基铵(PFOS-N(C ₂ H ₅) ₄)	56773-42-3
全氟辛基磺酸二癸二甲基铵(PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8
全氟辛基磺酸四丁基铵(PFOS-N(C ₄ H ₉) ₄)	111873-33-7
全氟辛基磺酰氟(PFOS-F)	307-35-7
双[十七氟辛烷磺酸]镁(PFOS-Mg)	91036-71-4
全氟辛烷磺酸吡啶	71463-74-6



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全氟辛烷磺酸盐	45298-90-6
全氟辛烷磺酸三乙基铵(PFOS-N(C ₂ H ₅) ₃)	54439-46-2
全氟辛烷磺酸四甲基铵(PFOS-N(CH ₃) ₄)	56773-44-5
N, N,N-三丙基戊烷-1-七氟辛烷-1-磺酸铵(PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
N,N-二丁基-N-甲基丁烷-1-胺十七氟辛烷-1-磺酸酯(PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0
双[4-(1,1-二甲基乙基)苯基]-碘鎓与全氟-1-辛烷磺酸的盐(1:1)	213740-80-8
全氟-1-辛烷磺酸二苯基(2,4,6-三甲基苯基)鎓	258341-99-0
全氟-1-辛烷磺酸 1-十六烷基吡啶鎓	334529-63-4
N,N,N-三乙基癸-1-胺十七氟辛烷-1-磺酸盐	773895-92-4
全氟辛烷磺酸四丁基磷 (PFOS-P (C ₄ H ₉) ₄)	2185049-59-4
全氟辛基磺酸二乙胺 (PFOS-C ₄ H ₁₁ N)	2205029-08-7
全氟辛基磺酸庚基二甲基-[2-(2-甲基丙-2-烯酰氧基)乙基]胺 (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3
全氟辛基磺酸酐(PFOSAN)	423-92-7
FOSAA, 及其盐	
N-(全氟-1-辛烷磺酰基)甘氨酸(FOSAA)	2806-24-8
全氟辛烷磺酰氨基乙酸盐 (FOSAA(anion))	909405-47-6
全氟辛烷磺酰氨基乙酸钾 (FOSAA-K)	75260-69-4
全氟辛烷磺酰氨基乙酸钠 (FOSAA-Na)	115716-87-5
N-MeFOSAA, 及其盐	
N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA)	2355-31-9
N-(十七氟辛基磺酰基)-N-甲基甘氨酸盐 (N-Me-FOSAA(anion))	909405-48-7
N-(十七氟辛基磺酰基)-N-甲基甘氨酸钾 (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, 及其盐	
N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸(N-EtFOSAA)	2991-50-6
N-乙基-N-[(十七烷氟辛基)磺酰基]-甘氨酸钾盐 (N-Et-FOSAA-K)	2991-51-7



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N-乙基-N-((十七氟辛基)磺酰基)甘氨酸盐 (N-Et-FOSAA(anion))	909405-49-8
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸铵 (N-Et-FOSAA-NH ₄)	2991-52-8
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸钠 (N-Et-FOSAA-Na)	3871-50-9
PFOSA, 及其盐	
全氟辛基磺酰胺(PFOSA)	754-91-6
全氟辛基磺酰胺锂盐(1:1)(PFOSA-Li)	76752-79-9
全氟辛基磺酰胺钠盐 (1:1) (PFOSA-Na)	76752-78-8
全氟辛基磺酰胺钾盐 (1:1) (PFOSA-K)	76752-70-0
全氟辛基磺酰胺铵盐 (1:1) (PFOSA-NH ₄)	76752-72-2
全氟辛基磺酰胺三乙胺 (PFOSA-C ₆ H ₁₅ N)	76752-82-4
PFOA, 及其盐&衍生物	
全氟辛酸(PFOA)	335-67-1
全氟辛酸钠(PFOA-Na)	335-95-5
全氟辛酸钾(PFOA-K)	2395-00-8
全氟辛酸银(PFOA-Ag)	335-93-3
全氟辛酰氟(PFOA-F)	335-66-0
全氟辛酸铵(APFO)	3825-26-1
全氟辛酸锂(PFOA-Li)	17125-58-5
全氟辛酸钴(PFOA-Co)	35965-01-6
全氟辛酸铯(PFOA-Cs)	17125-60-9
全氟辛酸铬(3+) (PFOA-Cr(3+))	68141-02-6
全氟辛酸-哌嗪(2:1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9
全氟辛酸盐	45285-51-6
全氟辛酰酐	33496-48-9
全氟辛酸四乙基胺	98241-25-9
全氟辛酸四甲基胺	32609-65-7



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全氟辛酸四丙基胺	277749-00-5
全氟辛酸钾水合物 (PFOA-K(H ₂ O) ₂)	98065-31-7
全氟辛酸乙胺 (PFOA-C ₂ H ₇ N)	1376936-03-6
全氟辛酸吡啶 (PFOA-C ₅ H ₅ N)	95658-47-2
全氟辛酸苯基吡啶 (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
全氟辛酸辛基三甲基铵 (PFOA-C ₁₁ H ₂₆ N)	927835-01-6

Phthalates**邻苯二甲酸酯****Test Method:** With reference to IEC 62321-8:2017, analysis was performed by GC-MS.**检测方法:** 参考 IEC 62321-8:2017, 采用 GC-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
Dibutyl Phthalate(DBP) / 邻苯二甲酸二丁酯 (DBP)	84-74-2	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP) / 邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP) / 邻苯二甲酸丁苄酯(BBP)	85-68-7	mg/kg	50	ND
Diisononyl Phthalate (DINP) / 邻苯二甲酸二异壬酯(DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
Di-n-Octyl Phthalate(DNOP) / 邻苯二甲酸二辛酯(DNOP)	117-84-0	mg/kg	50	ND
Diisodecyl Phthalate (DIDP) / 邻苯二甲酸二异癸酯(DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
Diisobutyl Phthalate(DIBP) / 邻苯二甲酸二异丁酯(DIBP)	84-69-5	mg/kg	50	ND
Bis(2-methoxyethyl)phthalate(DMEP) / 邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	mg/kg	50	ND
Di-n-Hexyl Phthalate(DnHP) / 邻苯二甲酸二正己酯(DnHP)	84-75-3	mg/kg	50	ND
Dipentyl Phthalate (DPENP/DnPP) / 邻苯二甲酸二戊酯 (DPENP/ DnPP)	131-18-0	mg/kg	50	ND
Diisopentyl Phthalate(DIPP) / 邻苯二甲酸二异戊酯(DiPP)	605-50-5	mg/kg	50	ND
n-pentyl Isopentyl Phthalate(nPIPP) / 邻苯二甲酸正戊基异戊基酯(nPIPP)	776297-69-9	mg/kg	50	ND

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Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
1,2-Benzenedicarboxylic Acid, di-C6-8-branched alkyl esters, C7-rich(DIHP) / 邻苯二甲酸二 C6-C8 支链烷基酯(DIHP)	71888-89-6	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid, Di-C7-11-Branched and Linear Alkyl Esters(DHNUP) / 邻苯二甲酸-二(C7,C9,C11)烷基酯 (DHNUP)	68515-42-4	mg/kg	50	ND

Polychlorinated Biphenyls (PCBs)**多氯联苯(PCBs)**

Test Method: With reference to US EPA 3550C:2007, analysis was performed by GC-ECD/GC-MS.
检测方法: 参考 US EPA 3550C:2007, 采用 GC-ECD/GC-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
2,4,4'-Trichlorobiphenyl(PCB28) / 2,4,4'-三氯联苯(PCB28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-Tetrachlorobiphenyl(PCB52) / 2,2',5,5'-四氯联苯(PCB52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-Pentachlorobiphenyl(PCB101) / 2,2',4,5,5'-五氯联苯(PCB101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-Pentachlorobiphenyl(PCB118) / 2,3',4,4',5-五氯联苯(PCB118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-Hexachlorobiphenyl(PCB138) / 2,2',3,4,4',5'-六氯联苯(PCB138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-Hexachlorobiphenyl(PCB153) / 2,2',4,4',5,5'-六氯联苯(PCB153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl(PCB180) / 2,2',3,4,4',5,5'-七氯联苯(PCB180)	35065-29-3	mg/kg	0.5	ND

Polychlorinated Naphthalenes (PCNs)**多氯萘(PCNs)**

Test Method: With reference to US EPA 3550C:2007, analysis was performed by GC-ECD/GC-MS.
检测方法: 参考 US EPA 3550C:2007, 采用 GC-ECD/GC-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A11
1-Chlorinated Naphthalene / 1-氯萘	90-13-1	mg/kg	5	ND
2-Chlorinated Naphthalene / 2-氯萘	91-58-7	mg/kg	5	ND



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1,4-Dichlorinated Naphthalene / 1,4-二氯萘	1825-31-6	mg/kg	5	ND
1,5-Dichlorinated Naphthalene / 1,5-二氯萘	1825-30-5	mg/kg	5	ND
1,2-Dichlorinated Naphthalene / 1,2-二氯萘	2050-69-3	mg/kg	5	ND
1,8-Dichlorinated Naphthalene / 1,8-二氯萘	2050-74-0	mg/kg	5	ND
1,2,3-Trichlorinated Naphthalene / 1,2,3-三氯萘	50402-52-3	mg/kg	5	ND
1,2,3,4-Tetrachlorinated Naphthalene / 1,2,3,4-四氯萘	20020-02-4	mg/kg	5	ND
1,2,3,4,6-Pentachlorinated Naphthalene / 1,2,3,4,6-五氯萘	67922-26-3	mg/kg	5	ND
Octa-Chlorinated Naphthalene / 八氯萘	2234-13-1	mg/kg	5	ND

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检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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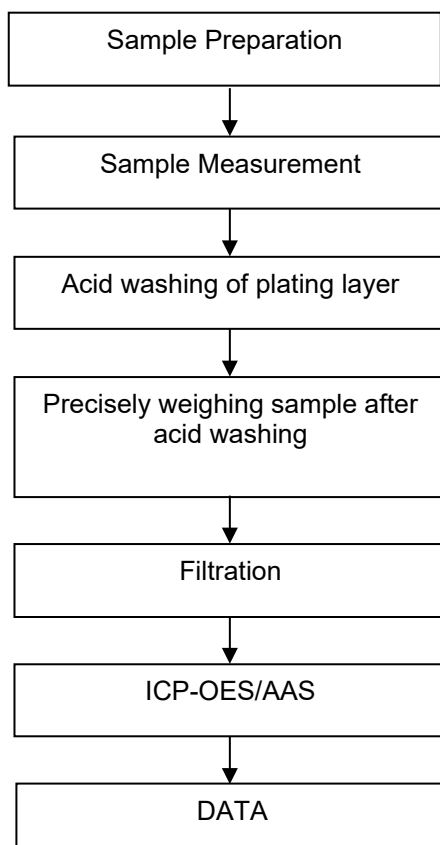
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Plating Element Testing Flow Chart



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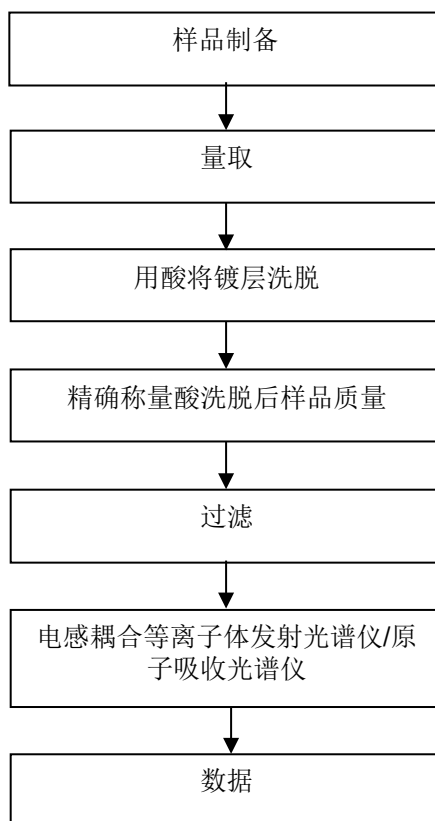
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镀层元素检测流程图



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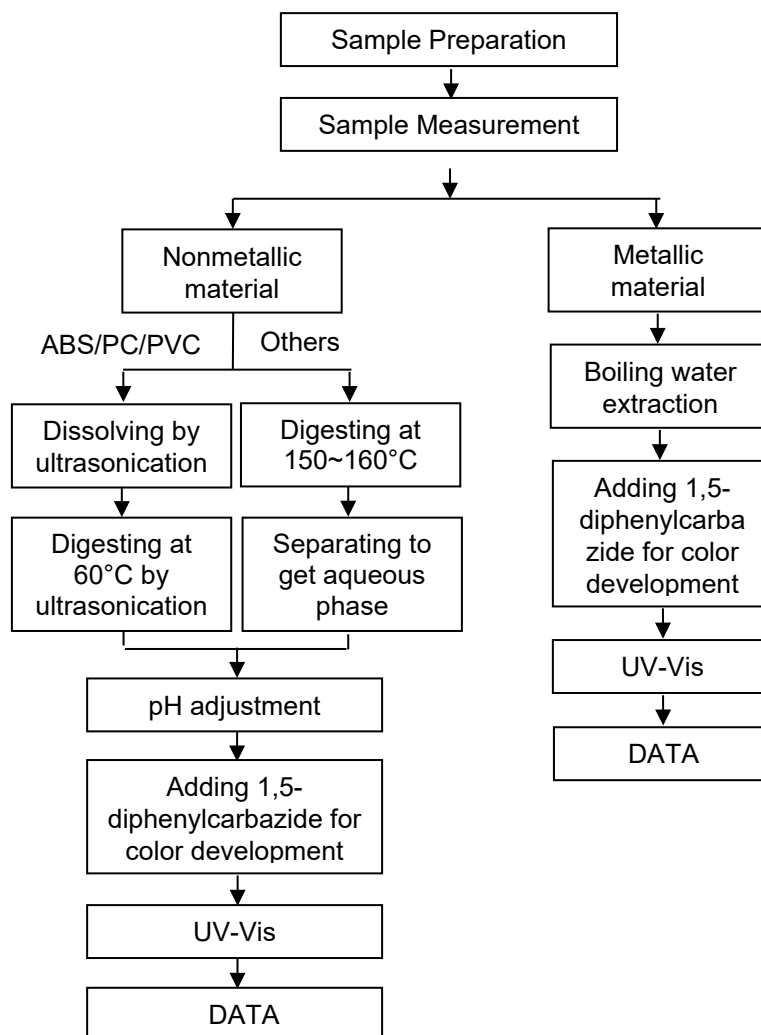
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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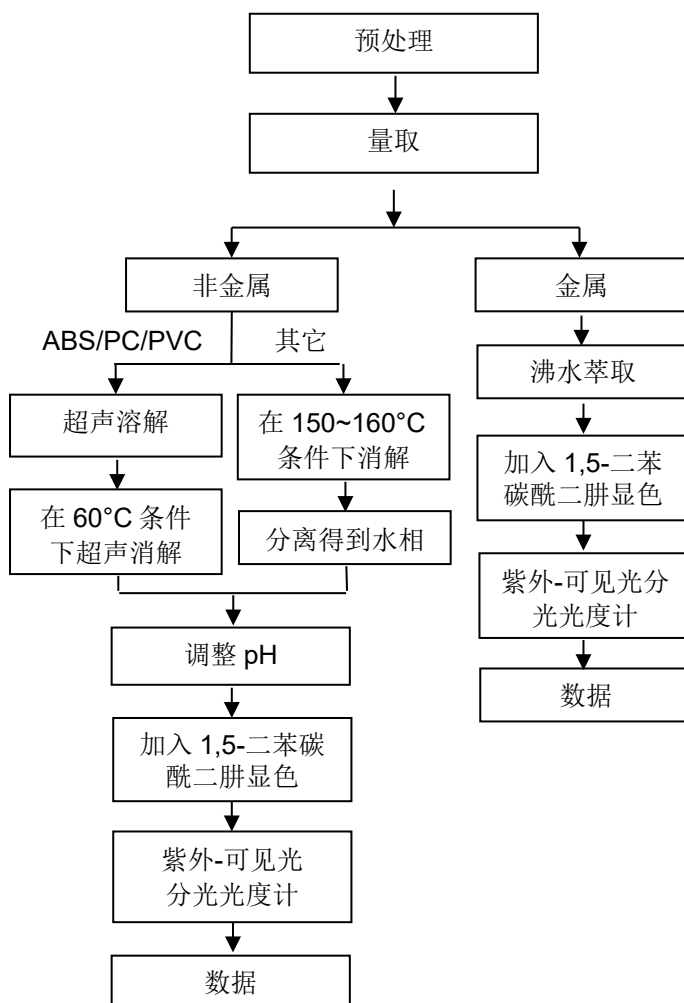
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六价铬检测流程图



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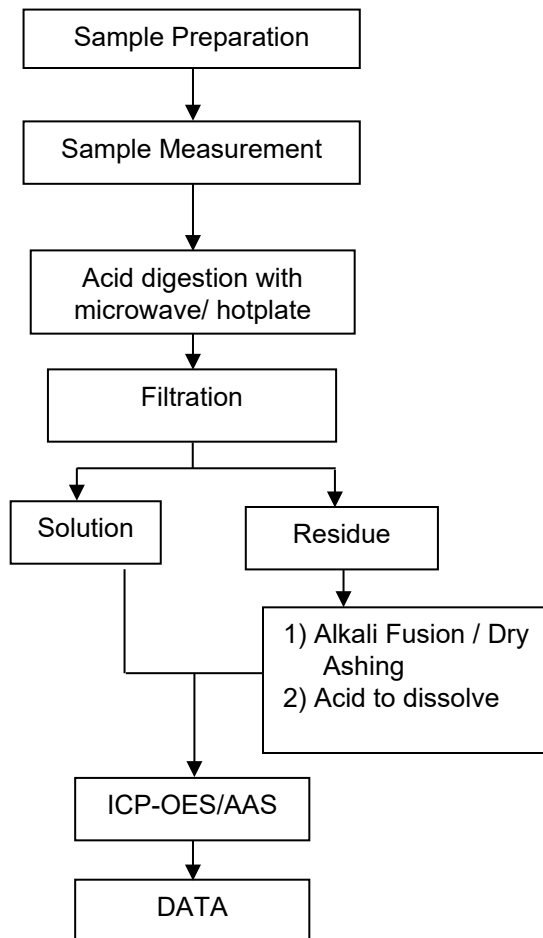
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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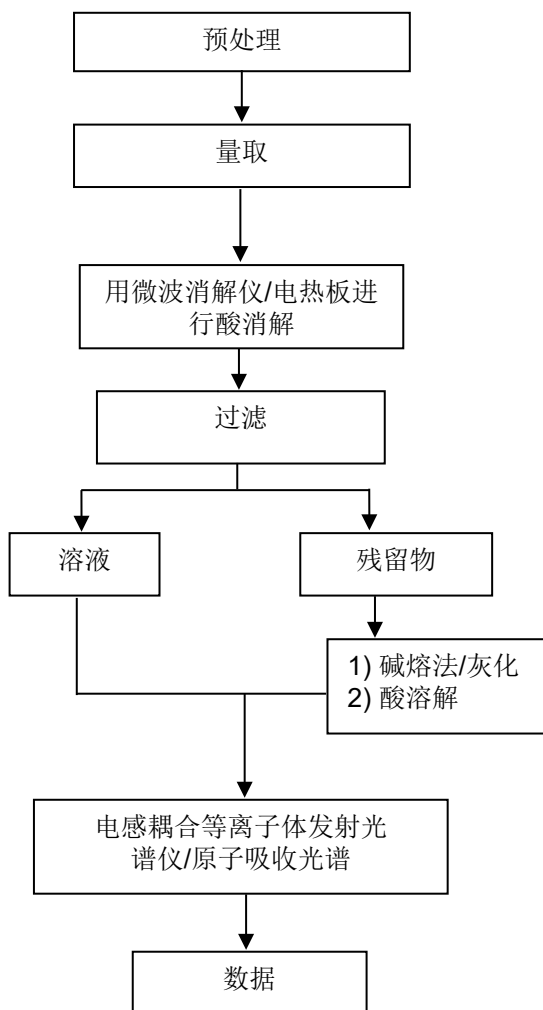
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元素检测流程图

样品按照下述流程被完全消解



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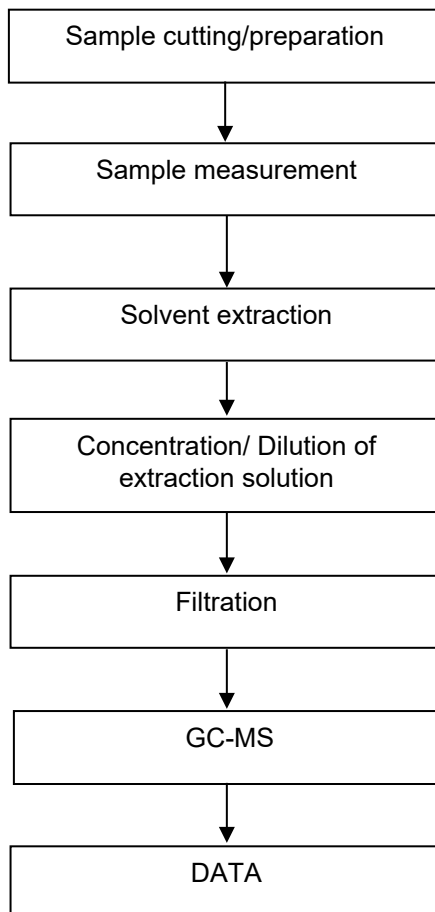
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PBB/PBDE Testing Flow Chart



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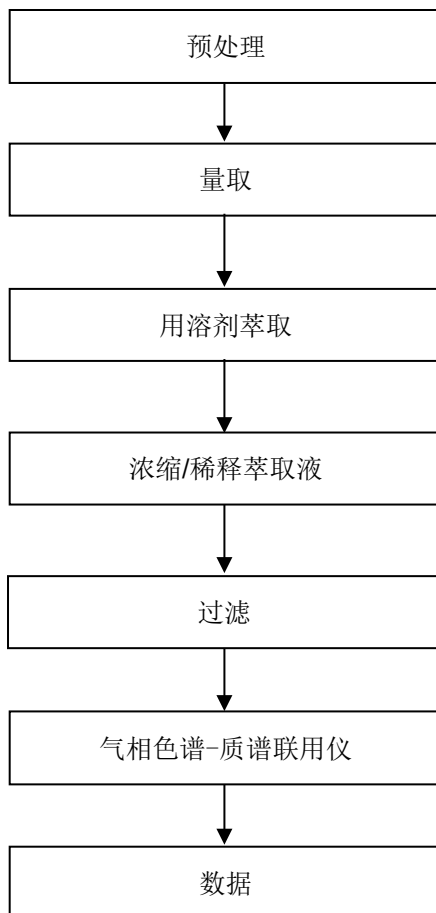
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PBB/PBDE 检测流程图



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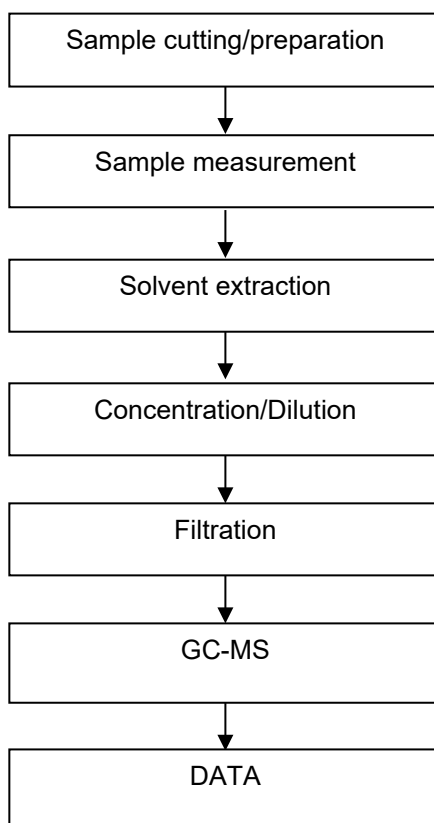
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Phthalates Testing Flow Chart



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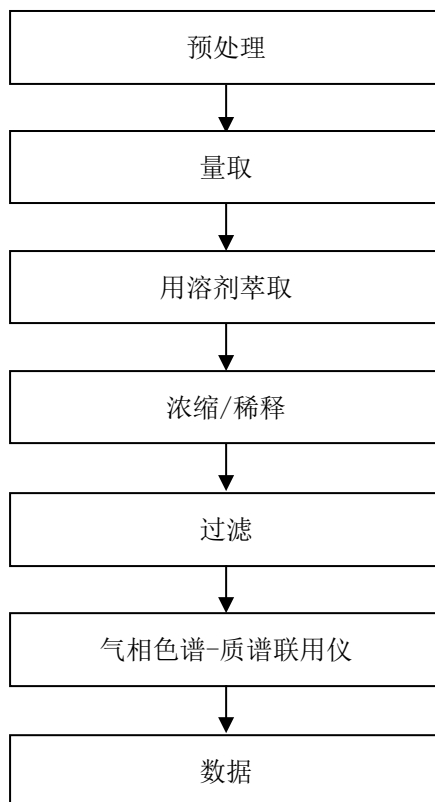
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Phthalates 检测流程图



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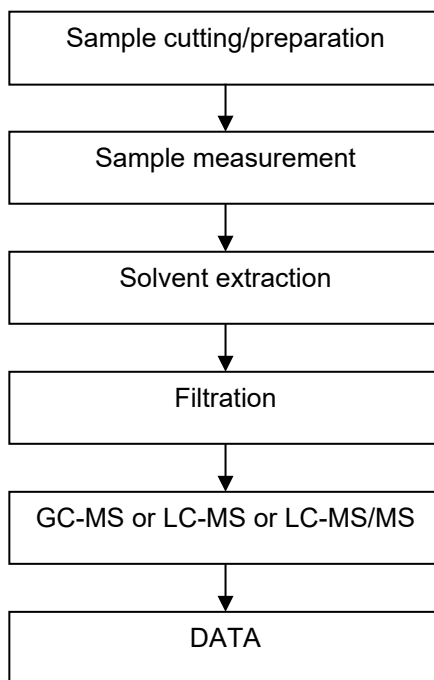
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TBBP-A Testing Flow Chart



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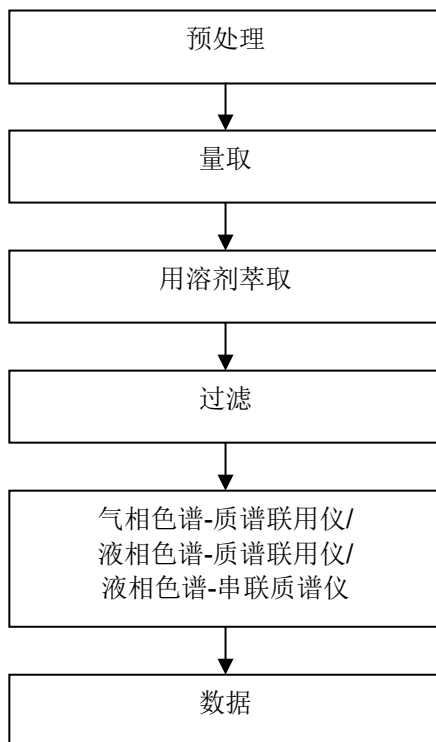
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TBBP-A 检测流程图



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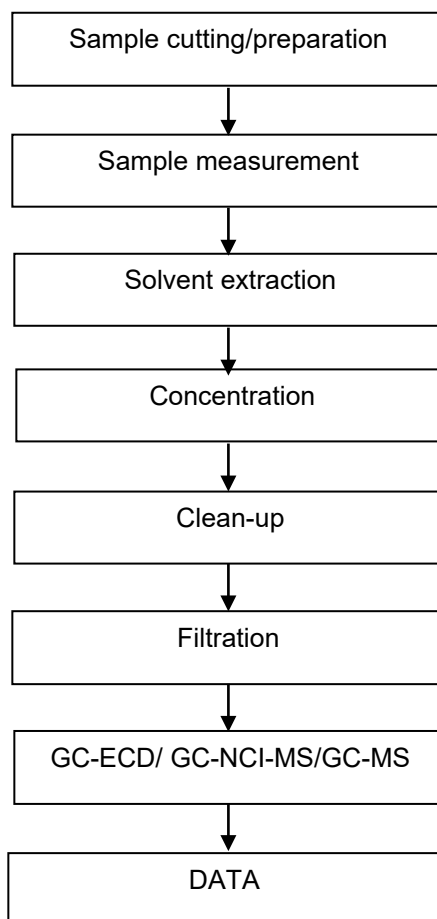
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Chlorinated Paraffin Testing Flow Chart



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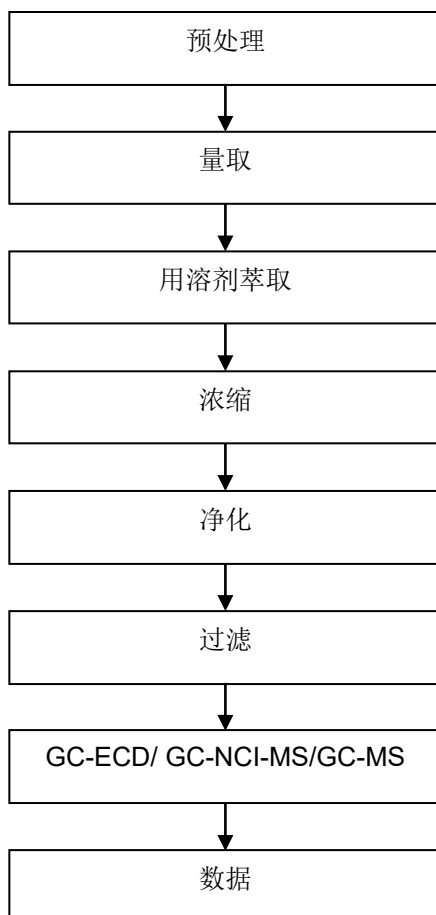
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氯化石蜡检测流程图



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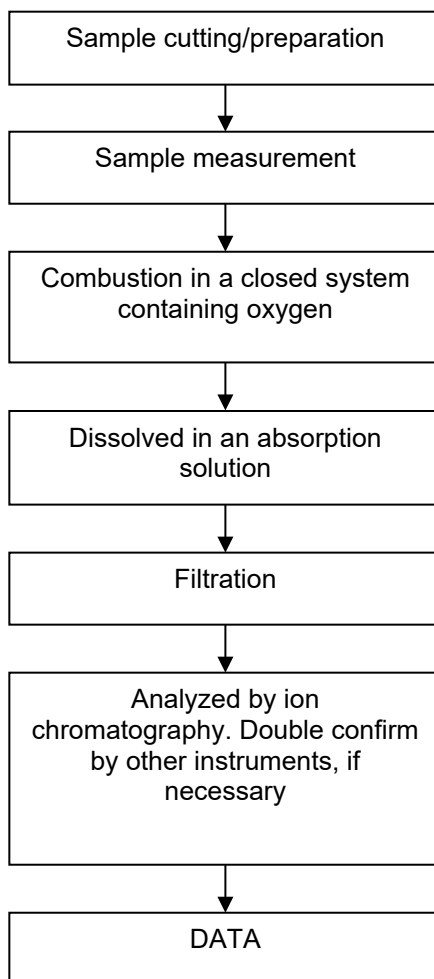
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Halogen Testing Flow Chart



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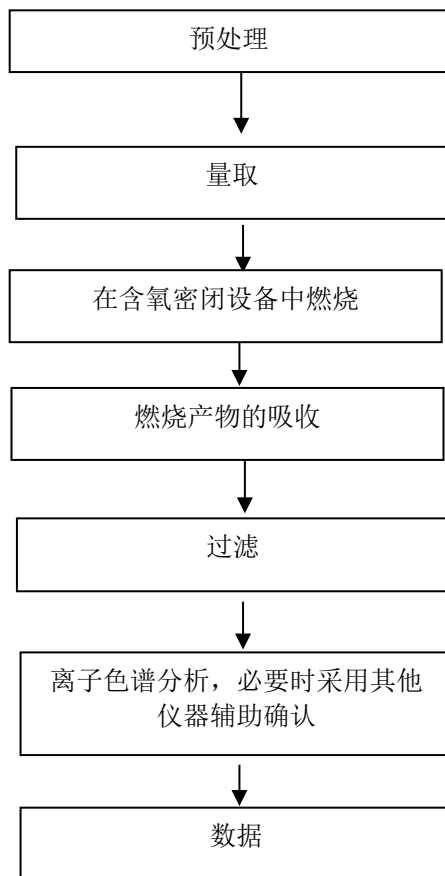
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卤素检测流程图



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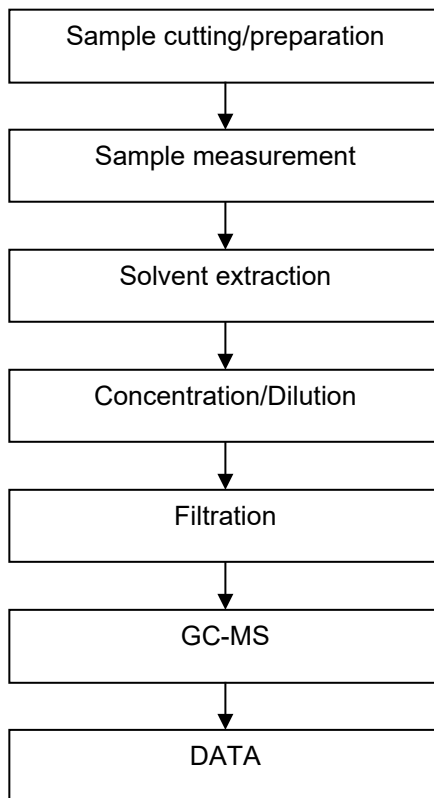
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HBCDD Testing Flow Chart



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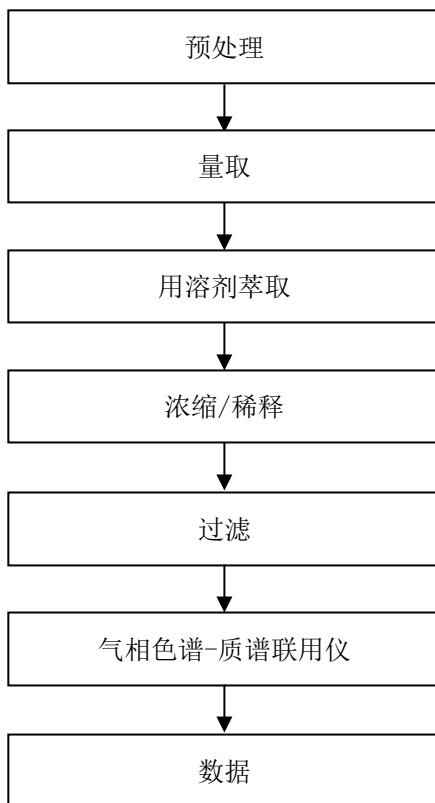
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HBCDD 检测流程图



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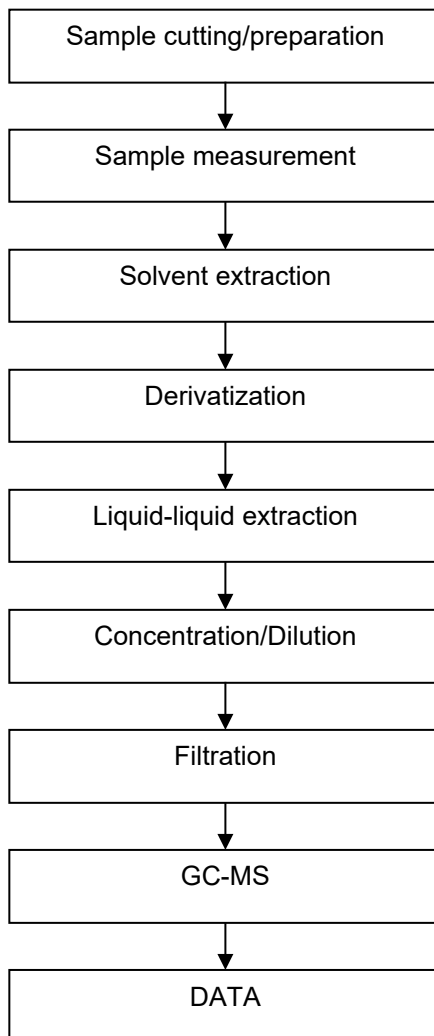
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Organotin Testing Flow Chart



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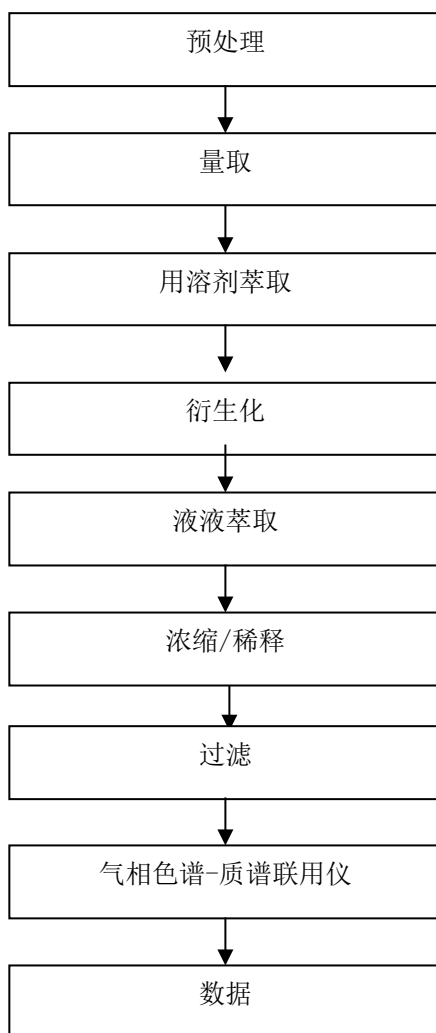
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有机锡检测流程图



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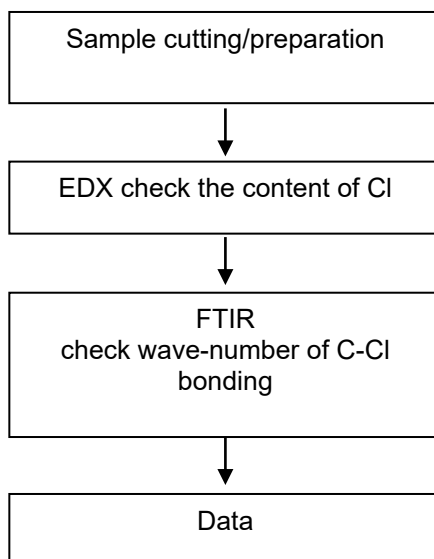
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PVC Testing Flow Chart



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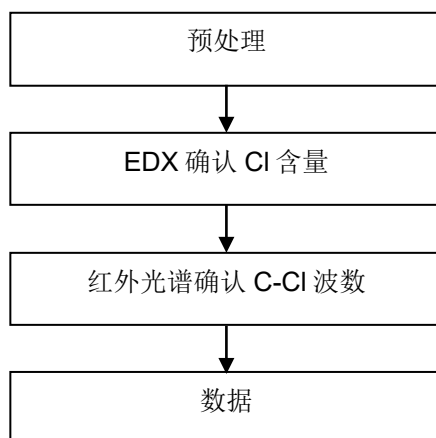
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PVC 检测流程图



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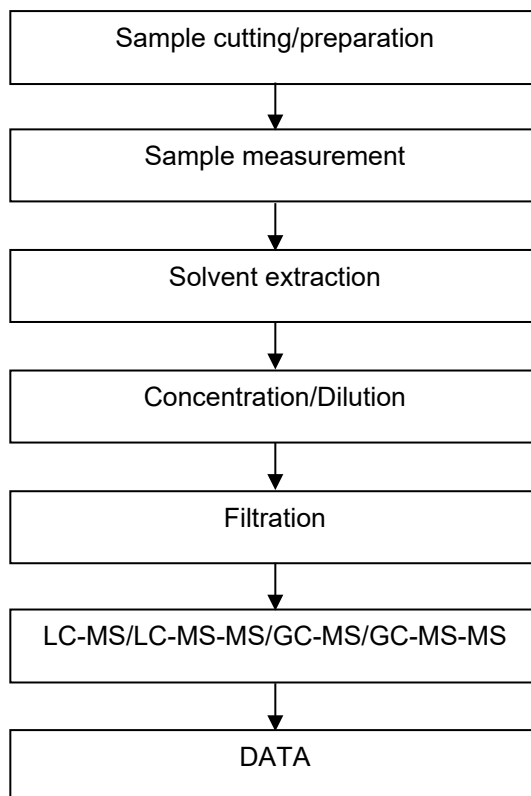
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PFASs/ PFOS/PFOA Testing Flow Chart



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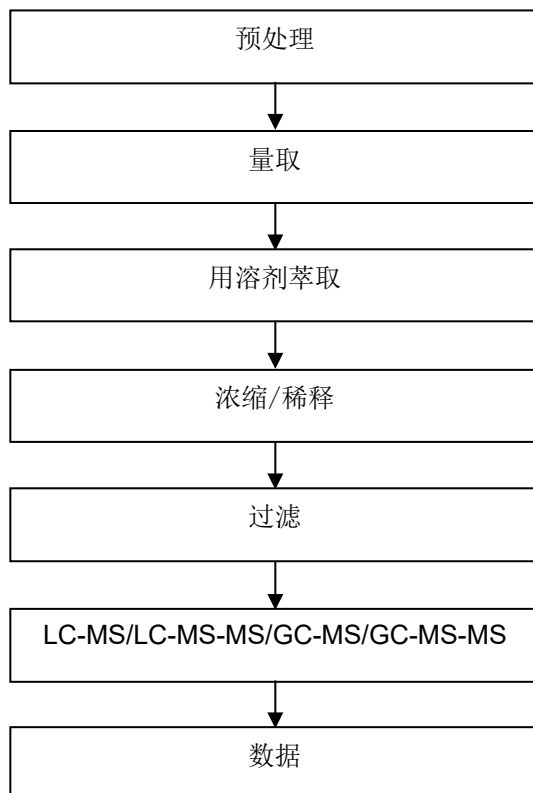
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PFASs/ PFOS/PFOA 检测流程图



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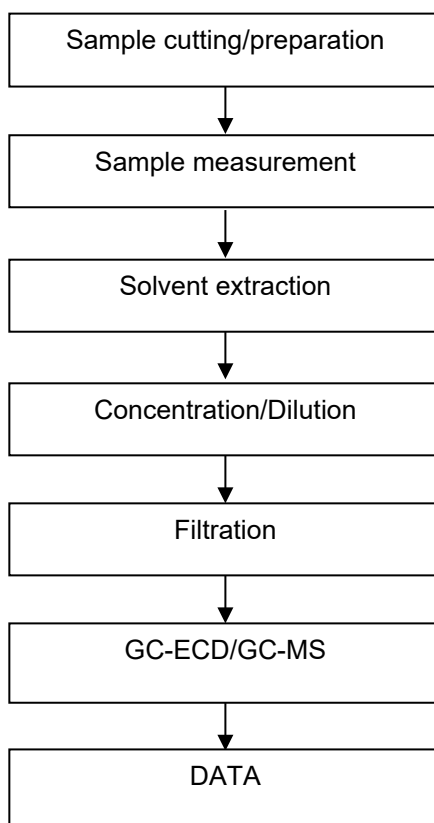
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PCBs, PCTs, PCNs Testing Flow Chart



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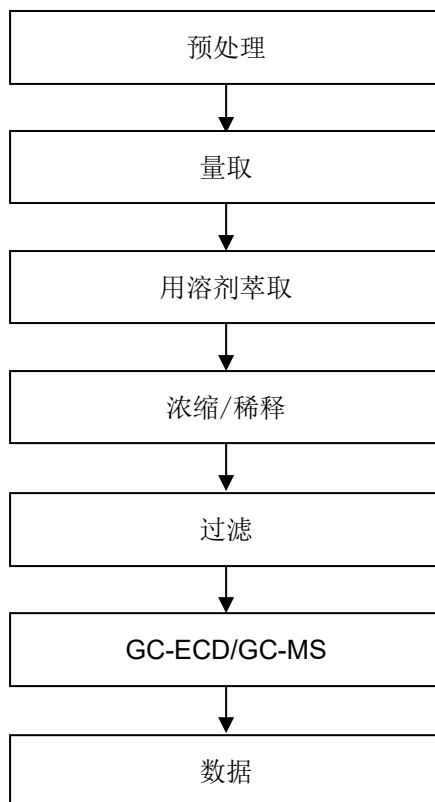
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PCBs, PCTs, PCNs 检测流程图



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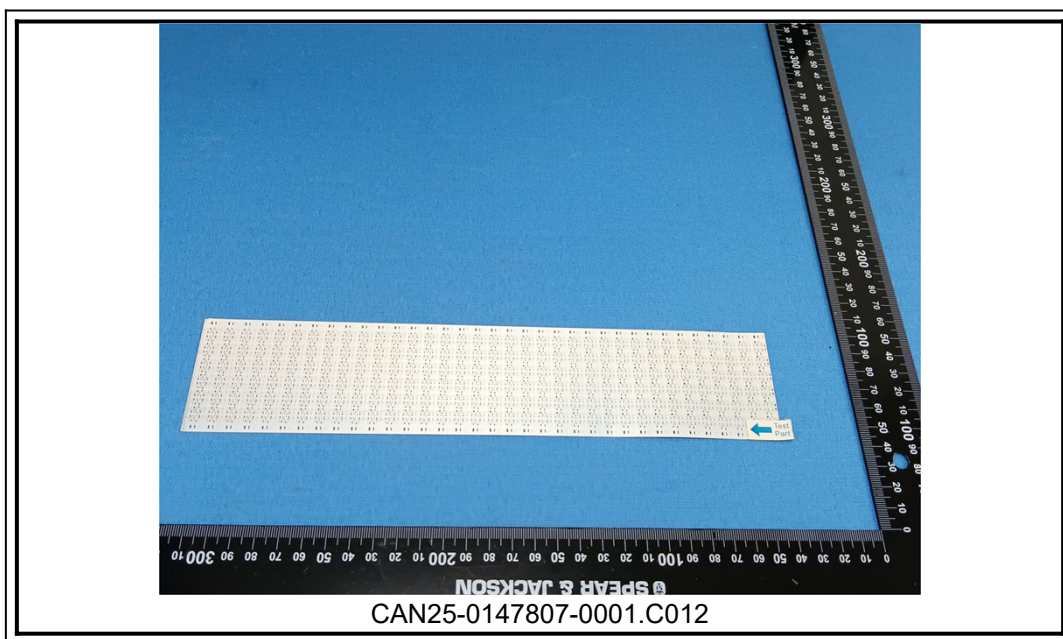
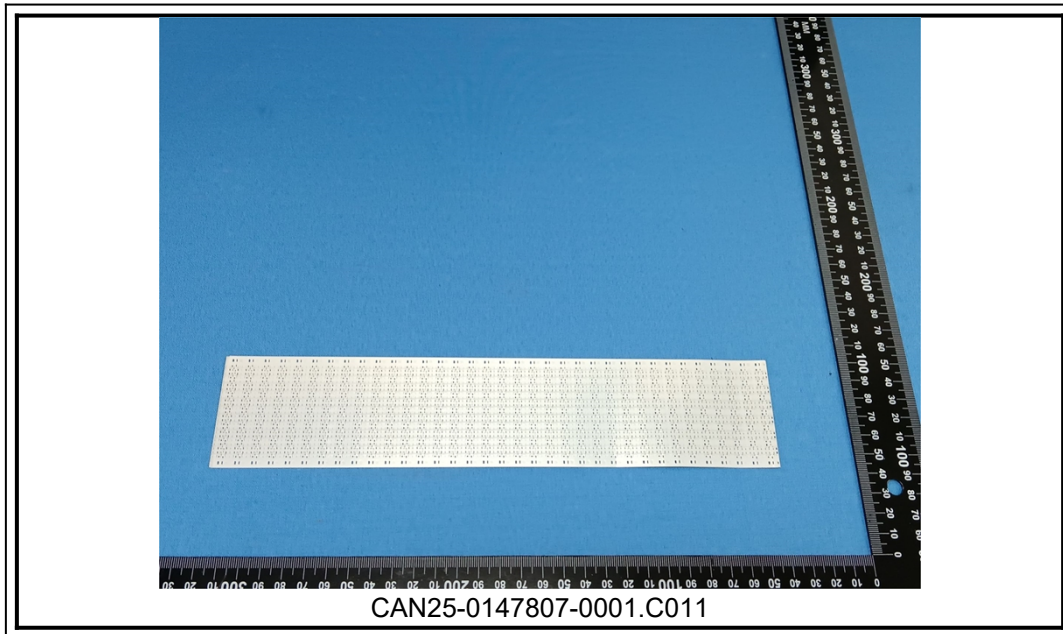
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